

# Fact Sheet



## *For Final Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act*

This Fact Sheet serves to address the changes specific to this Minor Modification, and shall be considered a supplement to the original Fact Sheet corresponding with the issuance of the initial Title V operating permit issued on April 24, 2006.

Permit Number: **R30-09100002-2006**

Application Received: **March 23, 2007**

Plant Identification Number: **03-54-091-00002**

Permittee: **AFG Industries, Inc.**

Facility Name: **Jerry Run Facility**

Mailing Address: **Rural Route 3, Box 151N, Bridgeport, WV 26330**

*Permit Action Number: MM01; Revised: May 29, 2007*

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Physical Location:	Rosemont, Taylor County, West Virginia
UTM Coordinates:	570.30 km Easting • 4348.60 km Northing • Zone 17
Directions:	From Interstate 79 take exit 124 (WV Route 279) to US Route 50. Turn left on Route 50 East to Taylor County. Approximately 1.2 miles into Taylor County turn right onto County Route 50/3 (AFG Road). Follow road approximately 1.4 miles to plant on the left.

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### **Facility Description**

AFG Industries, Inc, Jerry Run Facility (AFG) is a glass manufacturing facility covered by Standard Industrial Classification (SIC) 3211. The facility has the potential to operate seven (7) days per week, twenty-four (24) hours per day and fifty-two (52) weeks per year. The facility consists of one (1) float glass melting furnace, one (1)lehr, three (3) seamers, one (1) electric tempering furnace, seven (7) storage silos, several baghouses, numerous crushers, screw conveyors, bucket elevators, closed belt conveyors, and hoppers, (4) tanks of various capacities, and storage and cutting glass facilities. Emergency equipment on-site consists of two (2) diesel fired emergency generators and two (2) fire pump engines.

This modification incorporates the changes allowed by Permit R13-0080C. The only changes in permit R13-0080C are: the removal of potential emissions for hydrogen sulfide (H<sub>2</sub>S) emissions for the furnace from Section 4.1.1, revisions of Sections 4.1.6, 4.1.8, and 4.3.1; deletion of Sections 4.3.; and the addition of Sections 4.1.9 and 4.4.6.

## Emissions Summary

Plantwide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	No change
Nitrogen Oxides (NO <sub>x</sub> )	No change
Particulate Matter (PM <sub>10</sub> )	No change
Total Particulate Matter (TSP)	No change
Sulfur Dioxide (SO <sub>2</sub> )	No change
Volatile Organic Compounds (VOC)	No change
Lead (Pb)	No change
<i>PM<sub>10</sub> is a component of TSP.</i>	
Hazardous Air Pollutants	Potential Emissions
Total	No change
<i>Some of the above HAPs may be counted as PM or VOCs.</i>	

## Title V Program Applicability Basis

This facility has the potential to emit over 100 tons per year of Nitrogen Oxides (NO<sub>x</sub>), Particulate Matter (PM<sub>10</sub>), and Sulfur Dioxide (SO<sub>2</sub>). Therefore, AFG is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

## Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This modification has been found to be subject to the following applicable rules:

Federal and State:	45CSR13	New Source Review permits for stationary sources
	45CSR30	Operating permit requirement.

State Only:                      None

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR15, 45CSR34 and 45CSR30.

## Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )
R13-0080C	November 21, 2006	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

## Determinations and Justifications

R13-0080C is a result of settlement between AFG Industries, Inc. (AFG) and the Division of Air Quality (DAQ). Following are the changes that were made to the Title V Permit as reflected in R13-0080C:

- (1) The design capacity of the furnace was revised from 250 to 448.8 MMBtu/hr in the Emission Units 1.0. This change was per correspondences received from AFG. According to AFG, the 250 MMBtu/hr is the maximum heat input that would be employed in manufacturing glass at this facility. The design heat input is much higher, 448.8 MMBtu/hr. AFG facility is identified as a Type "a" source per 45CSR7. The Particulate Matter limit for the furnace is 31.17 lbs/hr. The expected emission rate of 27.4 lbs/hr meets this limit. This limit is based on the raw material feed rate at the heat input of 250 MMBtu/hr.
- (2) The removal of potential emissions for hydrogen sulfide (H<sub>2</sub>S) emissions for the furnace from the table in Section 4.1.1.
- (3) Revise Sections 4.1.6 to include additional requirements if AFG were to use commercial arsenic.
- (4) Revised Section 4.1.8 to limit the amount of salt cake that can be charged in the furnace, which is 310.3 LB/hr as requested by AFG.
- (5) Revised the table in Section 4.3.1 to reduce the frequency of testing of VOC, PM, NO<sub>x</sub> and CO to 60% from 50%.
- (6) Removed Sections 4.3.2, 4.3.3, and 4.3.4 that required SO<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub> stack testing, and AFG to determine compliance with the sulfur dioxide (SO<sub>2</sub>) emission limit of 591.3 TPY, respectively. Testing is not necessary since the SO<sub>2</sub> limits are based on mass balance and by item (4) above will show compliance.
- (7) Removed Section 4.4.1 since AFG is exempt from 45CSR§10-8.3.a because they are not required to submit monitoring plan.
- (8) The addition of Section 4.4.6 that required AFG to maintain daily records of the amount of raw materials charged to the furnace.

After AFG's reviewed the minor modification draft permit, AFG requested that the production rate typo of 27.0833 LB/hr at the bottom of page 7 of the Emission Unit Table be corrected to 27.0833 tons/hr.

### **Non-Applicability Determinations**

The following requirements have been determined not to be applicable to the subject facility due to the following:

None

### **Request for Variances or Alternatives**

None

### **Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

### **Comment Period**

All written comments should be addressed to the following individual and office:

Wayne Green  
Title V Permit Writer  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

### **Procedure for Requesting Public Hearing**

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

### **Point of Contact**

Wayne Green  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0499 ext. 1258 • Fax: 304/926-0478

### **Response to Comments (Statement of Basis)**

Not applicable.